ABSTRACT OF THE DISCLOSURE

A template matching method for searching a matching area having the highest correlation with a template including a reference point in a first image from a second image, the template matching method comprising calculating a difference between a corresponding point of the reference point in the second image and an estimated point of the reference point which is calculated by the template matching method, and determining at least one of parameters of the template matching, the parameters comprising the reference point, a size of the template and resolutions of the first and second images based on the difference.